## **AMENDMENTS TO THE CLAIMS**

- 1. (Currently Amended) A gamma correction device in an image capturing apparatus, the gamma correction device performing gamma correction on a video signal from an image capturing element on the basis of at least one correction curve having a predetermined input-output characteristic, wherein said at least one correction curve has a slope of 5.0 or less at the origin such that a corrected video signal conforms to film properties, wherein said at least one correction curve is of the form  $Signal_{OUT} = a * \log_{10}(Signal_{IN} + b) + c.$
- 2. (Original) The gamma correction device in the image capturing apparatus according to claim 1, wherein the slope of said at least one correction curve at the origin is settable based on various conditions.
- 3. (Original) The gamma correction device in the image capturing apparatus according to claim 1, wherein said at least one correction curve comprises a plurality of correction curves having different slopes and being selectable based on various conditions.
- 4. (Currently Amended) A gamma correction device in an image capturing apparatus, the gamma correction device performing gamma correction on a video signal from an image capturing element on the basis of at least one correction curve having a predetermined input-output characteristic, wherein said at least one correction curve comprises a composite of a first correction curve segment lying from the origin to a predetermined level of an input signal such that a corrected video signal conforms to a cathode-ray tube monitor and a second correction curve segment lying above the predetermined level of the input signal such that the corrected video signal conforms to

Application No. 10/810,599 Amendment dated June 24, 2008 Reply to Office Action of April 9, 2008 Docket No.: SON-2973

film properties, and both correction curve segments are continuously combined and have the same slope at the predetermined level of the input signal, and wherein said second correction curve segment is of the form

$$Signal_{OUT} = a * \log_{10}(Signal_{IN} + b) + c$$
.

- 5. (Original) The gamma correction device in the image capturing apparatus according to claim 4, wherein the predetermined level of the input signal is settable based on various conditions.
- 6. (Original) The gamma correction device in the image capturing apparatus according to claim 4, wherein said at least one correction curve comprises a plurality of correction curves having different predetermined levels of the input signals and being selectable based on various conditions.
- 7. (Previously Presented) The gamma correction device in the image capturing apparatus according to claim 1, wherein the image capturing apparatus is a video camera.
  - 8. (Cancelled).
- 9. (Currently Amended) The gamma correction device in the image capturing apparatus according to claim 1, wherein said at least one correction curve has a slope of between 1.0 and 5.0 at the origin, indicates an output level less than 100% when the input level is less than 200%, indicates an output level of at least 100% when the input level is greater than 400%, and is of differentiability class C<sup>1</sup> on the domain [0, 200%].

- 10. (Cancelled).
- 11. (Cancelled).
- 12. (Currently Amended) The gamma correction device in the image capturing apparatus according to claim 1, wherein said at least one correction curve has a slope of between 1.0 and 5.0 at the origin, indicates an output level less than 100% when the input level is less than 300%, indicates an output level of at least 100% when the input level is greater than 350%, and is of differentiability class C<sup>1</sup> on the domain [0,300%].
  - 13. (Cancelled).
  - 14. (Cancelled).
  - 15. (Cancelled).
- 16. (Currently Amended) The gamma correction device in the image capturing apparatus according to claim  $\frac{[[15]]}{1}$ , where (a) is between 0.5 and 0.7, (b) is between 0.01 and 0.1, and (c) is between 0.8.
  - 17. (Cancelled)
  - 18. (Cancelled).

- 19. (Cancelled).
- 20. (Cancelled).
- 21. (Cancelled).
- 22. (Cancelled).
- 23. (Previously Presented) The gamma correction device in the image capturing apparatus according to claim 4, wherein the image capturing apparatus is a video camera.
  - 24. (Cancelled).
- 25. (Currently Amended) The gamma correction device in the image capturing apparatus according to claim 4, wherein said at least one correction curve has a slope of between 1.0 and 5.0 at the origin, indicates an output level less than 100% when the input level is less than 150%, indicates an output level of at least 100% when the input level is greater than 350%, and is of differentiability class C<sup>1</sup> on the domain [0, 200%].
  - 26. (Cancelled).
- 27. (Previously Presented) The gamma correction device in the image capturing apparatus according to claim 4, wherein said first correction curve segment corresponds to the ITU-709 characteristic curve.

Application No. 10/810,599 Amendment dated June 24, 2008 Reply to Office Action of April 9, 2008

28. (Cancelled).

29. (Cancelled).

Docket No.: SON-2973